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No. 37]

NEW DELHI, SATURDAY, SEPTEMBER 12, 1987 (BHADRA 21, 1909)

इस भाग में निम्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके।
(Separate paging is given to this Part in order that it may be filed as a separate compilation)

भाग III—खण्ड 2

[PART III—SECTION 2]

पेटेंट कार्यालय द्वारा जारी की गई पेटेंटों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस

[Notifications and Notices issued by the Patent Office relating to Patents and Designs]

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Calcutta, the 12th September 1987

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1—237 GI/87

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APPLICATION FOR PATENTS FILED AT THE HEAD OFFICE 234/4, ACHARYA JAGADISH BOSE ROAD, CALCUTTA-20

The dates shown in the crescent brackets are the dates claimed under Section 135, of the Patents Act, 1970.

The 28th July, 1987

- 577/Cal/87. Sumitomo Heavy Industries, Ltd. Inertia force balancing apparatus.
- 578/Cal/87. Hoechst Aktiengesellschaft. Water-soluble triphendioxazine compounds, processes for their preparation and their use as dyestuffs.
- 579/Cal/87. The Babcock & Wilcox Company. Apparatus and method for continuously measuring mass flow.

The 29th July, 1987

- 580/Cal/87. Ebner Industrieofenbau Gesellschaft m.b.H. Process of operating a bell type convection annealing furnace.
- 581/Cal/87. B.V. Optische Industrie "De oude Delft". Method of manufacturing an image detection device for radiographic purposes.
- 582/Cal/87. Siemens Aktiengesellschaft. An arrangement for protecting against voltage sparkovers in telephone hand-sets.
- 583/Cal/87. Siemens Aktiengesellschaft. An arrangement for protecting against voltage spark-overs in telephone hand-sets.
- 584/Cal/87. Siemens Aktiengesellschaft. A transducer plate for piezo-electric transducers.
- 585/Cal/87. Siemens Aktiengesellschaft. A telephone hand set having protection against voltage spark-overs.
- 586/Cal/87. Siemens Aktiengesellschaft. Electronic holding circuits for two-loop telephones supplied via the subscriber line.
- 587/Cal/87. Siemens Aktiengesellschaft. An arrangement for improving the frequency response for electro-acoustic transducers.
- 588/Cal/87. The Babcock & Wilcox Company. Supervisory control of continuous drying.

The 30th July, 1987

- 589/Cal/87. Veb Chemiekombinat Bitterfeld. A process of preparing a new combination of the effective substances of herbicides.
- 590/Cal/87. Sotralentz S.A. Transport and/or storage container, particularly for a fluid and/or a fine grained loose material.
- 591/Cal/87. O & K Orenstein & Koppel Aktiengesellschaft. Transporter for lifting and transporting heavy loads.

The 31st July, 1987

- 592/Cal/87. B.V. Optische Industrie "De Oude Delft". Carrying device for holding an object in position on a body by means of friction.
- 593/Cal/87. Siemens Aktiengesellschaft. Arrangement for controlling switchgear.
- 594/Cal/87. Siemens Aktiengesellschaft. Apparatus for rapid recognition of short-circuits.
- 595/Cal/87. Metallgesellschaft Aktiengesellschaft. Spray Absorber.

- 596/Cal/87. E.T.D. Technology, Inc. Method for electroless plating. [Divisional dated 27th September, 1983].

The 3rd August, 1987

- 597/Cal/87. Asim Kumar Goswami. Improvements in or relating to gas burner and the like.
- 598/Cal/87. Bhola Nath Mitra. An ayurvedic composition effective as an agent for promoting agricultural yields and a method for its preparation.
- 599/Cal/87. Siemens Aktiengesellschaft. Apparatus for simulating the dialling pulse switch in a two-loop telephone.
- 600/Cal/87. Research Association for Residual Oil Processing. Process for the recovery of carbon from aqueous carbon slurry.
- 601/Cal/87. Westinghouse Electric Corporation. Lid for improved dendritic web growth.
- 602/Cal/87. Hoechst Celanese Corporation. Process for purifying 4-hydroxyacetophenone.
- 603/Cal/87. Continental Manufacturing & Sales Inc. Method for the treatment of sewage and other impure water. [Convention dated 7th May, 1987 and 7th May, 1987 (1133/87 and 1134/87) both are Ireland.]
- 604/Cal/87. The Babcock & Wilcox Company. A moisture measuring device. [Divisional dated 29th August, 1983].

The 4th August, 1987

- 605/Cal/87. Henry K. Obermeyer. Hydroelectric power installation and turbine generator apparatus therefor.
- 606/Cal/87. Henry K. Obermeyer. Hydromotive machine apparatus and method of constructing the same.
- 607/Cal/87. Lanxide Technology Company, L.P. Dense skin ceramic structure and method of making the same.
- 608/Cal/87. Fidia, S.p.A. Novel neuronotrophic factor.

COMPLETE SPECIFICATION ACCEPTED

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CLASS : 176-F & L 161002

Int. Cl. : F22 b 29/00.

IMPROVED COILED TUBE TYPE BOILERS WITH FORCED CIRCULATION.

Applicant & Inventor : SANTOSH KUMAR DE, OF 47/2, RUSSA ROAD EAST 1ST LANE, CALCUTTA-33, WEST BENGAL.

Application No. 178/Cal/82 filed February 15, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

15 Claims

A boiler comprising a combustion chamber, an upright gas pass leading upwardly from the combustion chamber, a plurality of separate, substantially similar, taper coiled tubular boiler elements, arranged within the upright gas pass, vertically, above the other, with their smaller ends disposed upwardly, each of the tubular boiler elements, except for the top-most one, being partially inserted into the tubular element immediately above it through the lower larger end and means for effecting forced circulation of the working medium or media through the tubular elements.

Compl. specn. 22 pages.

Drg. 4 sheets

CLASS : 65-B 161003

Int. Cl. : H01 f 29/00.

ELECTRICAL INDUCTIVE APPARATUS.

Applicant : WESTINGHOUSE ELECTRIC CORPORATION, OF WESTINGHOUSE BUILDING, GATEWAY CENTER, PITTSBURGH, PENNSYLVANIA 15222, UNITED STATES OF AMERICA.

Inventors : 1. IRVIN LYNN HANSEN, 2. RANDALL WALTER HAACK.

Application No. 476/Cal/82 filed April 29, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims

An electrical inductive apparatus having at least one electrical phase, comprising a magnetic core having separate main and series winding leg portions, and yoke portions, a main transformer having windings disposed in inductive relation with said main winding leg portions, including a tapped regulating winding arranged only for boost excitation, and a series transformer having windings disposed in inductive relation with said series winding leg portions with the excitation of said series transformer being responsive to said tapped regulating winding, said main and series winding leg portions of each electrical phase being physically separated from one another by a yoke portion common to both, with the density of the magnetic flux in the main winding leg portion being constant, said magnetic flux flowing only through the main winding leg portion and associated common yoke portion in the absence of series transformer excitation, and additionally flowing through the associated series winding leg portion and common yoke portion as excitation of the series transformer commences, said common yoke portion being equal in cross section to the larger of the two yokes which are combined from the main and series transformers.

Compl. specn. 10 pages.

Drg. 3 sheets

CLASS : 63-A, B, F & I

161004

Int. Cl. : H02 k 13/00.

CURRENT-COLLECTING DEVICE.

Applicant : LENINGRADSKOE PROIZVODSTVENNOE ELEKTROMASHINOSTROITELNOE OBIEDINENIE "ELEKTROSILA" IMENI S. M. KIROVA, MOSKOVSKY PROSPEKT 158, LENINGRAD, USSR.

Inventors : 1. ALEXANDR ADRIANOVICH CHERNOV, 2. VLADIMIR IVANOVICH KUZNETSOV, 3. NIKOLAI MIKHAILOVICH ANDREEV, 4. ARNOLD GRIGORIEVICH EIBSHITS.

Application No. 485/Cal/82 filed April 30, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims

A current-collecting device providing transmission of the electric current between the fixed and rotatable members of an electric machine and comprising current-carrying antifriction bearings with their inner races fitted by way of an electrically insulating sleeve to the shaft of the electric machine and capable of rotating together the rotor shaft, and with their outer races mounted in a fixed relation to the inner races, and elements for supplying the electric current to the inner and outer races of the current-carrying antifriction bearings, wherein the current-carrying antifriction bearings take the form of radial thrust bearings positioned between end stops and are provided with an arrangement for wetting and cooling their rolling bodies with an insulating liquid exhibiting lubricating properties, an elastic means being mounted on the shaft of the rotor, producing an axially directed force applied to the inner races of the current-carrying antifriction bearings causing the bodies of each current-carrying bearing to be pressed against the outer race thereof to produce a film of said insulating liquid between the surface of each rolling body and the surfaces of the inner and outer races facing the rolling body, as the rotor shaft is rotated, the thickness of said film of said insulating liquid being essentially commensurate with the molecular size of the liquid.

Compl. specn. 23 pages.

Drg. 3 sheets

CLASS : 176-C, G&I

161005

Int. Cl. : F22 b 37/00.

BOILER LOADING SYSTEM FOR A POWER PLANT.

Applicant : THE BABCOCK & WILCOX COMPANY, AT 1010 COMMON STREET, NEW ORLEANS, LOUISIANA 70160, UNITED STATES OF AMERICA.

Inventor : THOMAS DAVID RUSSELL.

Application No. 247/Cal/83 filed March 1, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

3 Claims

A boiler loading system for a power plant having a plurality of boilers and operable at a desired load, the plant having an actual plant load and each boiler having an actual boiler load, comprising :

means for sensing an actual plant load;

means for comparing the actual plant load to the desired plant load to obtain a load change signal representing one of a plant load increase demand and a plant load decrease demand;

a load control connected to said means for sensing and to each of said boilers for applying a signal corresponding to the plant load change signal into one of said boilers for controlling said one of said boilers to satisfy the one of the plant load increase and decrease amounts;

high-low sensing means for generating a first logic signal whenever a plant load change signal occurs;

a first logic circuit connected to said high-low sensing means and to said load control, having a plurality of inputs each corresponding to one of the boilers, operable when receiving a signal over one of said inputs to activate the loading of a corresponding one of the boilers; and a second logic circuit connected to each of the boilers having at least one output connected to each respective one of said first logic circuit inputs, each second logic circuit operating to determine an efficiency change increase and an efficiency change decrease for incremental load increases and decreases respectively; and

a boiler load sensor connected between each boiler and each respective second logic circuit.

Compl. specn. 14 pages.

Drg. 2 sheets

CLASS : 40-F

161006

Int. Cl. : B 01 d 17/04.

A DEMULSIFICATION METHOD USING HETEROCYCLIC AMMONIUM POLYAMIDOAMINES AS ENULSIFIERS.

Applicant : THE DOW CHEMICAL COMPANY OF 2030 DOW CENTER, ABBOTT ROAD, MIDLAND, MICHIGAN 48640, U.S.A.

Inventors : 1. JERRY R CONKLIN, 2. LARRY RAY WILSON.

Application No. 367/Cal/83 filed March 26, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

8 Claims

A demulsification method which comprises contacting an emulsion of oil and water as herein described with a water-soluble heterocyclic ammonium polyamidoamine having amide and amine moieties in its backbone and heterocyclic ammonium moieties in its backbone and/or pendant therefrom, wherein the demulsifier is present in an amount of from 1 to 10,000 weight parts of the adduct per million weight parts (ppm), preferably from 3 to 1000 ppm of said emulsion.

Compl. Specn. 28 pages.

Drg. 1 sheet.

CLASS : 32-E

161007

Int. Cl. : C 08 3/00 & 45/54.

PROCESS FOR MAKING A THERMOPLASTIC POLYMER OF IMPROVED ULTRA-VIOLET RADIATION STABILITY.

Applicant : SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., OF CAREL VAN BYLANDT-LAAN 30, 2596 HR THE HAUGE, THE NETHERLANDS.

Inventors : 1. GERALD SCOTT, 2. SAHAR NADUM AL-MALAIKA.

Application No. 363/Cal/83 filed March 25, 1983.

Convention dated 25th March, 1982 (8208828) U.K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

8 Claims

A process for making a thermoplastic polymer of improved ultra-violet radiation stability which comprises :

- (i) mixing unimproved polymer with a linear or cyclic polysulphide having 2 to 8 linked sulphur atoms at a temperature of at least 100°C for 1 to 60 minutes such that the polysulphide is oxidised and converted to an active stabilising entity;

- (ii) if desired, diluting the thus-improved polymer with unimproved polymer; and

- (iii) adding to the polymer before, during or after mixing or dilution an ultra-violet stabiliser, provided that if the ultra-violet stabiliser is an oxidisable sulphur-containing compound, it is added after mixing or dilution, in which the amounts of the polysulphide and of the ultra-violet stabiliser are respectively 0.01% to 5% by weight and 0.01% to 3% by weight with respect to the weight of the polymer.

Compl. specn. 25 pages.

Drg. 3 sheets

CLASS : 32-E.

161008

Int. Cl. : C 08 f 3/00 & 15/00.

A PROCESS FOR POLYMERIZING AND CO-POLYMERIZING CONJUGATE DIOLEFINS.

Applicant : ENOXY CHIMICA S.p.A., OF VIA MAZZINI 8, SASSARI, ITALY.

Inventors : 1. ANTONIO CARBONARO, 2. DOMENICO FERRARO.

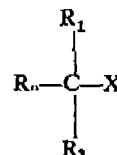
Application No. 437/Cal/83 filed April 14, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims

A process for polymerizing and co-polymerizing conjugate diolefins characterized in that a catalytic system prepared from :

- (a) at least one compound of a metal of Group III B of the periodic system;
- (b) at least one aluminium compound of formula AlR^1 , where R is alkyl, cycloalkyl or alkylaryl, and R^1 is 2 R or H;
- (c) at least one compound containing one or more hydroxyls such as water, carboxylic alcohols or carboxylic acids and possibly;
- (d) an inorganic compound containing Cl or Br in ionisable form, or at least one organic halogen derivative of formula :



where R_1 , R_2 and R_3 , which can be either different from each other or entirely or partly equal to each other, are H, O, Cl or Br atoms, or alkyl, aryl, alkylaryl, chloro or bromo alkyl, alkoxy or cycloalkoxy residues, and X is Cl or Br is used for polymerizing and co-polymerizing conjugate diolefins, wherein in said catalytic system component b/component a being greater than 20 and preferably between 30 and 200; component c/component a being greater than 2 and preferably between 4 and 100; component d/component a being equal to or greater than 0 and preferably between 0.2 and 3.

Compl. specn. 17 pages.

Drg. Nil

CLASS : 32-E

161009

Int. Cl. : C 08 f 3/00, 15/00.

A CATALYTIC PROCESS FOR POLYMERISING AND CO-POLYMERIZING CONJUGATE DIOLEFINS.

Applicant : ENOXY CHIMICA S.p.A., OF VIA MAZZINI, 8, SASSARI, ITALY.

Inventors : 1. ANTONIO CARBONARO, 2. LUCIANO RIPANI.

Application No. 438/Cal/83 filed April 14, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

10 Claims

A process for polymerizing and co-polymerizing conjugate diolefins characterized in that the reaction is carried out in the presence of a catalytic system prepared from :

- (a) at least one of the elements pertaining to Group III B of the periodic system;
- (b) at least one aluminium compound of formula AlR_2R' where R is alkyl, cycloalkyl or alkylaryl and R' is R or H;
- (c) at least one organic halogen derivative or a halide of an element able to exist in at least two valency states, the halide corresponding to a state higher than the minimum;
- (d) at least one compound containing one or more salifiable hydroxyl groups such as water, carboxylic alcohols or carboxylic acids, wherein said catalytic system is prepared by a process consisting of vaporising the metal at a pressure of between 10^{-1} and 10^{-8} torr at a temperature of between -20 and 200°C , and the reaction is complete at a temperature between 20 and 100°C .

Compl. specn. 10 pages.

Drg. Nil

CLASS : 69-I

161010

Int. Cl. : H 01 h 45/00.

A TERMINAL APPARATUS FOR A DRAWER TYPE RELAY.

Applicant : MITSUBISHI DENKI KABUSHIKI KAISHA, OF NO. 2-3, MARUNOUCHI 2-CHOME, CHIYODA-KU, TOKYO, JAPAN.

Inventors : 1. TOSHITAKA JO, 2. KUNYOSHI HARA, 3. KOICHI MIZUTA, 4. HIROSHI YAMAMOTO.

Application No. 882/Cal/82 filed July 29, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

15 Claims

A terminal apparatus for a drawer type relay, comprising :

- upper and lower terminal boards having at least one plug inserting port and one inspection window on a front side thereof;
- terminal pieces arranged on said upper and lower terminal boards, said terminal pieces being connected to an input side having a power source and a relay element side of said relay;
- a plurality of contact pieces having one end fixed to said terminal pieces, an opposite free end of said contact pieces having a contact thereon, said contact pieces being pushed open as an electrode plate of a plug is inserted and removed from said plug inserting port;
- stopping boards installed on said upper and lower terminal boards for contacting said free ends of said contact pieces to limit bending of said free ends;
- an insulation rod having a thinner center shaft portion and having one end fitted in a hole on said stopping board of said lower terminal board and another end supported and fixed to a lower side cover of said terminal apparatus;

a compression spring;

a short bar loosely inserted about said thinner center shaft portion of said insulation rod and supported at an upper surface by said compression spring, said short bar normally being supported at a lower surface by one of said contacts on said free end of one of said contact pieces;

said short bar being connected to or separated from said one of said contacts on said free end of said one of said contact pieces with a predetermined time delay as said electrode plate of said plug is inserted and removed from said plug inserting port so that a secondary side of a current transformer is automatically prevented from opening and said power source in said input side of said relay is connected to or separated from said relay element side.

Compl. specn. 41 pages.

Drg. 4 sheets

CLASS : 63-B

161011

Int. Cl. : H 02 k 3/00.

THREE PHASE CURRENT WINDING FOR A HIGH VOLTAGE MACHINE.

Applicant : SIEMENS AKTIENGESELLSCHAFT, OF BERLIN AND MUNICH, WEST GERMANY.

Inventor : HERBERT AUINGER.

Application No. 1036/Cal/82 filed September 7, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

9 Claims

In a three-phase winding for a high voltage machine with any number of poles $2p = 4$ and Y connected legs, formed of coil groups, each leg having two winding ends to provide a total of six winding ends, with the coil groups alternately connected in opposite directions, and connected in the same and the opposite sense with respect to the magnetization and potential direction to form "with" and "counter" coil groups which are distributed along the circumference and connected in series in such a manner that a reduction of the maximum voltages present between adjacent coil sides at the phase transitions is obtained the improvement comprising an asymmetrically distributed arrangement and series connection of the individual coil groups of the three winding legs along the circumference such that upon reversal of the Y connections, the maximum voltages present at the phase transitions remain unchanged, the six winding ends being arranged physically side-by-side within a pole pair, the sums of the absolute values of the adjacent potential being at most $U_1 + U_2 = (3p - 2) USG$ at the phase transitions which occur when the respective $2p$ coil groups of a leg are connected in series, where USG is the voltage of a coil group, whereby generally four and up to six wiring connections are installed side-by-side only over individual short sections of the circumference, to connect the individual coil groups on the coil head side.

Compl. specn. 17 pages.

Drg. 8 sheets

CLASS : 144-E₁

161012

Int. Cl. : C 09 c 3/00.

PROCESS FOR REPAIRING TRANSPARENT COLORED PIGMENTS.

Applicant : MERCK PATENT GESELLSCHAFT MIT BESCHRANKTER HAFTUNG, POSTFACH 4119, D-6100 DARMSTADT, FRANKFURTER STRASSE 250, FEDERAL REPUBLIC OF GERMANY.

Inventors : 1. TAKAJI WATANABE, 2. TAMIO NOGUCHI.

Application No. 1116/Cal/82 filed September 27, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

2 Claims

Process for the preparation of transparent coloured pigments in which a platelet shaped transparent substrate such as mica, talc or glass is coated in aqueous suspension in the presence of a base such as aqueous ammonia, ammonium bicarbonate, sodium bicarbonate, potassium bicarbonate, sodium hydroxide and potassium hydroxide or a substance which produces ammonia by hydrolysis in the aqueous suspension such as urea, acid amides e.g. formamide, with a coloured metal oxide or hydroxide such as $\text{FeO}(\text{OH})$, $\text{FeO}(\text{OH})_n$, $\text{Fe}(\text{OH})$, $\text{Co}(\text{OH})_n$, $\text{Cr}(\text{OH})_n$, Fe_2O_3 , Fe_3O_4 , CoO and Cr_2O_3 and is then separated off, washed, if necessary, dried and, if necessary, calcined, characterized in that the metal oxide or hydroxide precipitation is carried out in the presence of such an amount of an alkaline earth metal compound that a content of 0.1–5% by weight of the alkaline earth metal oxide or hydroxide results in the metal oxide or hydroxide layer.

Compl. specn. 14 pages.

Drg. Nil

CLASS : 160-A

161013

Int. Cl. : B 60 p 3/00.

A REFRIGERATED TRANSPORT UNIT.

Applicant & Inventor : GEORGE E. WEASEL, JR., TEM-COLE, INC., HIGHWAY 65, MCCLURE, OHIO-43534, U.S.A.

Application No. 1121/Cal/82 filed September 27, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims

A refrigerated transport unit which comprises an enclosed air-tight body having front and side walls, a top and a floor, doors on said enclosed body for loading cargo therein, means on said body for transporting said body from one location to another, insulation in the walls, top, floor, and doors of said body; a water sprinkler unit within the body attached to the top of the body, sprinkler openings in said sprinkler unit, a water inlet fluidly connected to said sprinkler unit, and extending to the outside of said body through the insulation, drain means on the body for draining water from the body, a supply of liquid nitrogen within bottle means suitable for containing liquid nitrogen within said body, expansion tubes connected to said bottle means, exhaust conduits fluidly connected to said expansion tubes, said exhaust conduits running along the floor of said body, and exhaust openings in said exhaust conduits for discharging exhausted nitrogen into the body.

Compl. specn. 14 pages.

Drg. 4 sheets

CLASS : 116-B & G

161014

Int. Cl. : B 65 h 5/00.

APPARATUS FOR HANDLING THIN SHEETS OF MATERIAL.

Applicant : METAL BOX p.l.c., OF QUEENS HOUSE, FORBURY ROAD, READING RG1 3 JH, BERKSHIRE, ENGLAND.

Inventors : 1. IAN DAVID GINN, 2. LEONARD GLEAVE, 3. LESLIE WOODS.

Application No. 1122/Cal/82 filed September 27, 1982.

Convention date 29th September, 1981 (81 29371) U. K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

9 Claims

Apparatus for handling thin sheets of material, such apparatus comprising at least one pair of rollers, for co-operating with each other to draw a said sheet tangentially

between them, and drive means for rotating said rollers, each roller comprising a rigid roller body carrying a respective circumferential roller surface for engaging the sheet between the two roller surfaces, one roller of the pair having a first said roller surface which is immovable circumferentially with respect to the corresponding roller body, and the other roller having a draw ring encircling its body, the roller having a draw ring encircling its body, the roller surface of said other roller being defined on the draw ring, wherein the draw ring comprises a resilient ring member, resiliently gripping the roller body, and a tyre carried by and encircling the ring member and having the roller surface of the draw ring, whereby the draw ring is capable of limited rotation about the corresponding roller body such as substantially to prevent slippage between either of the roller surfaces and a said sheet when the latter is engaged between the rollers.

Compl. specn. 18 pages.

Drg. 7 sheets

CLASS : 36-A; 195-D

161015

Int. Cl. : F 04 d 1/00.

CHECK VALVE ARRANGEMENT OF AN INTAKE PIPE OF A CENTRIFUGAL PUMP.

Applicant : KISHINEVSKY POLITEKHNIЧЕСKY INSTITUT IMENI S. LAZO, KISHINEV, PROSPEKT LENINA, 168, USSR.

Inventors : 1. JURY MAXIMOVICH BYCHKOV, 2. JURY KAZIMIROVICH MITSEK, 3. VALERY MIKHAILOVICH PURGIN, 4. VLADIMIR ALEXANDROVICH BARANCHUGOV.

Application No. 1124/Cal/82 filed September 28, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims

A check valve arrangement of an intake pipe of a self-priming pump, comprising :

an elastic packing ring for closing up a gap between said pipe and a connector;

a valve member which is an elastic disc disposed within the elastic packing ring and connected with the latter by means of an elastic connection piece and reinforced by rigid rods spacedly disposed on the plane of the disc and arranged substantially in parallel to said elastic connection piece connecting the elastic disc with the elastic packing ring.

Compl. specn. 11 pages.

Drg. 1 sheet

CLASS : 70-B

161016

Int. Cl. : H 01 m 3/02.

LEAK-PROOF ALKALINE CELL.

Applicant : HITACHI MAXELL, LTD., OF NO. 1-1-88, USHITORA, IBARAKI-SHI OSAKA-FU, JAPAN.

Inventor : OSAMU WATANABE.

Application No. 1406/Cal/82 filed December 4, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

12 Claims

A leak-proof alkaline cell comprising :

a positive electrode material;

a negative electrode material;

a member for accommodating said positive electrode material;

a member for covering said negative electrode material and a gasket provided between said members;

a sealant composition comprising asphalt being interposed between the gasket and at least one of said members;

characterized in that said sealant composition comprises additionally at least one of vinyl acetate homopolymer, vinyl acetate copolymer and polyterpene in an amount of 0.5 to 25% by weight based on the weight of asphalt in case of vinyl acetate homopolymer or vinyl acetate copolymer or in an amount of 1 to 30% by weight based on the weight of asphalt in case of polyterpene so as to improve the leak-proof property.

Compl. specn. 11 pages.

Drg. 1 sheet

CLASS : 107-G

161017

Int. Cl. : F 02 d 19/00.

CONTROL SYSTEM FOR A DUAL FUEL INTERNAL COMBUSTION ENGINE.

Applicant : CUMMINS ENGINE COMPANY, INC., OF 1000 FIFTH STREET, COLUMBUS, INDIANA 47201, UNITED STATES OF AMERICA.

Inventor : ROSS WILLIAM McDONALD.

Application No. 1488/Cal/82 filed December 24, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

14 Claims

A control system for a dual fuel internal combustion engine, the latter having a first fuel source and a second fuel source under a predetermined pressure, said system comprising :

primary means for metering fuel to the engine from the first fuel source as a function of engine load and operator demand;

means for generating a control signal as a function of engine load;

means for metering fuel from the second fuel source to the engine as a function of said control signal whenever it is desired to operate the engine in a dual fuel mode; and

means responsive to operation of the engine in a dual fuel mode for modulating the fuel metered by said primary metering means by an amount which provides substantially the same fuel energy content delivered to the engine in the dual fuel mode as in the single fuel mode.

Compl. specn. 12 pages.

Drg. 1 sheet

CLASS : 71-G

161018

Int. Cl. : A 01 b 77/00.

A DEVICE FOR PERFORMING SOIL INSPECTION.

Applicant : INGENIEURSBUREAU A.P. VAN DEN BERG B.V., OF IJZERWEG 4, HEERENVEEN, NETHERLANDS.

Inventor : ARTE PIETER VAN DEN BERG.

Application No. 1490 /Cal/82 filed December 24, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

17 Claims

A device for performing soil inspection comprising means to be fixed in respect of the ground and to vertically support a tube to be driven into the soil and driving means included in said device adapted to engage a tube vertically into the soil characterised in that the driving means for the tube (1) grip around said tube substantially coaxially and being adapted to drive said tube in a continuous manner, said driving means for the tube (1) comprise at least one unit (31), consisting of a pair of opposed driving wheels (32, 33) with a concave rim profile adapted to the shape of the tube (1) to be driven, at least one of the wheels (32, 33) of such a unit (31) being connected to a driving motor (38, 40), units (31) being adapted to be superposed along the tube (1).

Compl. specn. 17 pages.

Drg. 2 sheets

CLASS : 69-I

161019

Int. Cl. H 01 g 9/00.

VAR GENERATORS.

Applicant : WESTINGHOUSE ELECTRIC CORPORATION, WESTINGHOUSE BUILDING, GATEWAY CENTER, PITTSBURGH, PENNSYLVANIA 15222, UNITED STATES OF AMERICA.

Inventor : LASZLO GYUGYI.

Application No. 511/Cal/83 filed April 27, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

8 Claims

A VAR generator of the type which supplies reactive power to an electrical system comprising :

a capacitive reactive means interconnectable with said electrical system for supplying said reactive power thereto during a predetermined interval of time;

at least two controllable switch means interconnected in series circuit relationship with said capacitive reactive means for connecting said capacitive reactive means in reactive circuit relationship with said electrical system during said interval of time; and

at least two non-linear clamping means each of which is connected in parallel circuit relationship with each of said switch means for conducting therethrough capacitive reactive means discharge current while said switch means is in an off state but only when the voltage across said switch means is above a maximum predetermined allowable value and during a period of time which is subsequent to said level to thus limit the voltage across said capacitive reactive means and said switching means to a predetermined safe level.

Compl. specn. 16 pages.

Drg. 5 sheets

CLASS : 70-B.

161020

Int. Cl. : B 01 k 3/02.

AN ANODIC STRUCTURE FOR MERCURY CATHOD ELECTROLYTIC CELLS.

Applicant : ORONZIO DE NORA IMPIANTI ELETTOCHIMICI S.p.A., VIA BISTOLFI 35-20134 MILANO, MILAN, ITALY.

Inventor : ALBERTO PELLEGRINI.

Application No. 512/Cal/83 filed April 27, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 Claims

An anodic structure for mercury cathode electrolytic cells comprising:

- a dimensionally stable metal anode comprising distribution means for distributing current to the anode;
- said means consisting of primary distribution bars held to secondary distribution bars;
- ferrules provided with said primary distribution bars for receiving;
- conducting stems, said stems disposed within sleeves;
- characterized in that a plurality of baffles extending upwardly from said anode and provided in association with secondary distribution bars;
- said baffles forming successive converging and diverging surfaces. A, B (Figures 1 & 2).

Compl. specn. 21 pages.

Drg. 2 sheets

CLASS : 69-I

161021

Int. Cl. : H 03 k 19/00.

THYRISTOR LOGICAL NOR ELEMENT.

Applicants & Inventors : (1) ANATOLY DMITRIEVICH IGNATENKO, OF DNEPROPETROVSK, NABEREZH-NAYA IMENI V.I. LENINA, 14, KV. 14, USSR; (2) JURY IVANOVICH KUZOVLEV, OF ZAPOROZHIE, ULITSYA GOGOLYA, 145, KV. 48, USSR AND (3) JURY VENIAMINOVICH CHERNIKHOV, OF DNEPROPETROVSK, PL. OKTYABRSKAYA, 5, KV. 16A, USSR.

Application No. 513/Cal/83 filed April 27, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims

A thyristor logical NOR element comprising .

- a thyristor whose anode is coupled, via load resistor;
- to a pulse supply voltage but and is electrically connected with the output terminal;
- a control electrode of the thyristor, which is coupled via a first bypass resistor to the cathode thereof connected to a zero bus;
- input diodes whose cathodes are joined and connected to a lead of the control circuit resistor and to a diodeless input terminal;
- the anodes of these diodes being connected to input terminals of the thyristor logical NOR element;
- a first n-p-n transistor whose collector is connected to another lead of the control circuit resistor;
- an isolating diode whose anode is connected to the collector of the first n-p-n transistor and the cathode thereof is connected to the control electrode of the thyristor;
- the emitter of the first n-p-n transistor being connected to the cathode of the thyristor;
- a second bypass resistor whose one lead is connected to the emitter of the first n-p-n transistor and the second lead is connected to the base thereof;
- a second n-p-n transistor whose emitter is connected to the base of the first n-p-n transistor;

a third bypass resistor whose one lead is connected to the emitter of the second n-p-n transistor and the second lead is connected to the base of the same n-p-n transistor;

a circuit of series-connected diodes, the cathode of the first diode being connected to the base of the second n-p-n transistor;

a first limiting resistor whose one lead is connected to anode of the last diode in the circuit of series-connected diodes and the second lead thereof is connected to the pulse supply voltage but;

a second limiting resistor inserted between the pulse supply voltage bus and the collector of second n-p-n transistor.

Compl. specn. 21 pages.

Drg. 2 sheets

CLASS : 187-C & D

161022

Int. Cl. : H 04 m 3/00.

A TELECOMMUNICATIONS EXCHANGE.

Applicant : THE PLESSEY COMPANY plc., OF VICARAGE LANE, ILFORD, ESSEX, ENGLAND.

Inventors : 1. RICHARD WALTER ADAMS, 2. ALEXANDER SCHREDER PHILIP.

Application No. 519/Cal/83 filed April 28, 1983.

Convention date 28th April, 1982 (82 12317) U. K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 Claims

A telecommunications exchange including a plurality of exchange switching resources including line termination units and switching stages under the control of a common control system the exchange including fault detection and monitoring arrangements adapted to increment a fault count for each resource indicating a fault condition and the fault detection and monitoring arrangements are arranged upon maturing of a fault, count of a line terminating unit, to check the fault counts for all switching stages and each switching stage having a fault count within a predetermined value of a fault threshold of the line-termination unit is identified and placed in an out-of-service state.

Compl. specn. 14 pages.

Drg. 3 sheets

CLASS : 145-D

161023

Int. Cl. : D 21 f 7/00.

IMPROVED HEADBOX ASSEMBLY USED IN PAPER MANUFACTURE.

Applicant : BELOIT CORPORATION, P.O. BOX 350 BELOIT, WISCONSIN 53511, U.S.A.

Inventors : 1. CARL BERNARD DAHL, 2. JERE WILMOT CROUSE.

Application No. 583/Cal/83 filed May 10, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

8 Claims

Improved headbox assembly (10) wherein a headbox is subject to extraneous vibrational energy from adjoining machinery or the like, characterised in comprising at least one vibration absorbing device (19; 20; 21) rigidly secured to said headbox in the plane of vibration of said extraneous vibration and creating at least one node at said head box to absorb vibrational energy transmitted thereto.

Compl. specn. 11 pages.

Drg. 2 sheets

CLASS : 47—B + C + E.

161024

Int. Cl. : C 10 b 9/00 + 21/00 + 27/00 +
47/00 + 57/00.

A DEVICE AND A PROCESS FOR THE RECOVERY OF THE BY-PRODUCTS FROM BEEHIVE COKE OVENS.

Applicant & Inventor : AMAR PRASAD BANERJI, SNEHA MILAN, TELEPHONE EXCHANGE ROAD, DHANBAD-1, BIHAR, INDIA.

Application No. 593/Cal/83 filed May 11, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

9 Claims

A device for the recovery of by-products such as tar, coke ovens gas and other like by-products from Beehive Coke Ovens comprising :

a battery of Beehive ovens provided with a hot air duct a waste gas tunnel or duct;

two hydraulic mains characterised in that the ovens are grouped into two sets of alternate ovens and one of the said hydraulic mains is connected to the outlets of the second set of alternate ovens in the said battery, and to a regenerator provided with a chimney for regeneration of heat;

two hot air mains are provided for supply of hot air to the alternate sets of ovens for combustion;

controlling valves are connected to the hot air duct and the waste gas tunnel with means that the two sets of alternate ovens are opened to or shut from the combustion chamber alternately to let the unburnt exhaust gas in the ovens to be taken out for recovery of the by-products in a known-by-products recovery unit in a known manner.

Compl. specn. 12 pages.

Drg. 2 sheets

CLASS : 161-B; 168-C & D

161025

Int. Cl. : E 01 f 9/00.

A REFLECTING ROAD STUD FOR A REFLECTING ROAD BEACON.

Applicant & Inventor : SAMARENDRA KUMAR SINHA GUPTA, OF 85/1B, BANK PLOT, CALCUTTA-700031, STATE OF WEST BENGAL, INDIA.

Application No. 603/Cal/83 filed May 13, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims

A reflecting road stud for use with a road beacon comprising :

a glass lens, one end of said glass lens being curved to substantially hemispherical space while the opposite end is ground and polished;

said ground end of the glass lens being coated with a known light reflecting material like silver nitrate and covered by a rubber cap;

said coated glass lens being placed within a metal casing with the front end of the metal casing bent adjacent and flushed to overlie on the curved end of the glass lens;

the edges of the extreme end of the metal casing being bent inwardly;

a metal piece provided within the casing closing the opening at the rear of the road stud formed by the bent edges of the metal casing;

the space defined behind the glass lens and the metal piece being filled with resinous or sealing compound for tightly locating the glass lens within the metal casing by means of depressions formed on the said metal casing;

a hole being drilled in the region of the said depression of the metal casing for a nail or hook to pass in order to enable mount the said road stud in the resilient mounting of a road beacon.

Compl. specn. 9 pages.

Drg. 1 sheet

OPPOSITION PROCEEDINGS

(1)

An opposition entered by National Research Development Corporation to the grant of a Patent on application No. 158620-II made by Hanex Inc. as notified in the Gazette of India Part III, Section 2 dated 18-7-87 has been dismissed.

(2)

An opposition has been entered by M/s. Bajaj Auto Limited, to grant of a Patent on application No. 158671 (867/Del/82) dated 24-11-82 made by M/s. Piaggio & C. S.p.A.,

(3)

An opposition has been entered by M/s. Bajaj Auto Limited, to grant of a Patent on application No. 158672 (868/Del/82) dated 24-11-82 made by M/s. Piaggio & C. S.p.A.?

(4)

An opposition has been entered into by WIMCO LIMITED, Bombay to the grant of a Patent on application for Patent No. 158803 made by Shri Madhu Jivanlal Saraiya, Bombay.

(5)

An opposition has been entered in to by M/s. National Research Development Corporation of India, New Delhi, to the grant of a Patent on application for Patent No. 158803 made by Shri Madhu Jivanlal Saraiya, Bombay.

PATENT SEALED

152288 158077 158191 158346 158361 158375 158376
158399 158449 158454 158456.

**STATEMENT REGARDING LICENCE AGREEMENTS OF PATENTS REGISTERED UNDER SECTIONS 68 AND 69
FOR THE PERIOD OF APRIL 1987 TO JUNE 1987**

FROM FOREIGNERS TO INDIAN

| Patent Nos. | Patentee | Licence granted to | Licence granted on | Entry made under Sec. | Entry made on |
|-------------------|--|---|--------------------|-----------------------|---------------|
| 143770 and 148513 | Machine Fabric Rieter AG, also known as Rieter Machine Works Limited | Laxmi Machine Works Limited Coimbatore 20 India | 3rd June 1983 | 69 | 22-5-87 |

**STATEMENT REGARDING LICENCE AGREEMENTS OF PATENTS REGISTERED UNDER SECTION
68 and 69 FOR THE PERIOD OF**

APRIL 1987 to JUNE 1987

FROM INDIAN TO INDIAN

| Patent Nos. | Patentee | Licence granted to | Licence granted on | Entry made under Sec. | Entry made on |
|--------------------------------|--|--|--------------------|-----------------------|---------------|
| 134375, 138571, 139827, 141852 | National Research Development Corporation of India New Delhi | Wimco Limited Ballard Estate Bombay, India | 20th Sep. 1983. | 68 | 27-4-87 |

RENEWAL FEES PAID

| | | | | | | |
|--------|--------|--------|--------|--------|--------|--------|
| 139185 | 141383 | 142509 | 143021 | 144410 | 144562 | 144646 |
| 145359 | 145417 | 145973 | 146191 | 146560 | 148081 | 148161 |
| 148475 | 149177 | 149228 | 149850 | 149915 | 149942 | 149948 |
| 150004 | 150100 | 150121 | 150122 | 150642 | 150699 | 150887 |
| 150934 | 151306 | 151441 | 151522 | 151637 | 151686 | 151725 |
| 151797 | 151817 | 151852 | 152225 | 152410 | 152593 | 152706 |
| 152742 | 152771 | 152783 | 152963 | 152966 | 153070 | 153195 |
| 153207 | 153313 | 153604 | 153616 | 153747 | 153938 | 154134 |
| 154357 | 154416 | 154480 | 154795 | 154796 | 154902 | 155375 |
| 155493 | 156252 | 156729 | 156822 | 156994 | 156887 | 157000 |
| 157073 | 157079 | 157099 | 157361 | 157721 | 157736 | 157810 |
| 158027 | 158028 | 158030 | 158149 | 158150 | | |

REGISTRATION OF DESIGNS

The following design have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Design Act, 1911.

The date shown in the each entry is the date of registration of the design included in the entry.

Class 1. Nos. 157921, 157922, 157923, 157925, 157926, 157927, 157929, 157931, 157933, 157938, 157939. Hirji Bhanji Shah, trading as Mini Industries, a sole proprietary concern having its place of business at Mathura Industrial Estate, Gala No. 5, Balaram Patil Road, Khari, Bhayander (E), Thana, in the State of Maharashtra within the Union of India. "Watch Straps". 28th January, 1987.

Class 1. No. 157956. Wajidsons Exports, an Indian Partnership Firm of Prince Road, Wajid Nagar, P.O. Box No. 79, Moradabad-244001, Uttar Pradesh, India. "Container". 4th February, 1987.

Class 3. No. 158008. Rotomould (India), Vijay Industrial Estate, Padra Road, Samtala, Baroda, 391 410, Gujarat, India, An Indian Partnership firm. "Storage Tank". 16th February, 1987.

Class 3. Nos. 158012, 158013. Rotomould (India), Vijay Industrial Estate, Padra Road, Samtala Baroda-391 410 Gujarat, India. An Indian Partnership firm. "Storage Tank". 16th February, 1987.

Class 3. No. 158017. Rotomould (India), Vijay Industrial Estate, Padra Road, Samtala, Baroda 391 410, Gujarat, India, An Indian Partnership firm. "Plastic Tray". 16th February, 1987.

Class 3. No. 158038. Shree Krishnakeshav Laboratories Limited, a company incorporated in India, of Amralwadi Road, Ahmedabad-380 008, Gujarat, India. "Toothpick". 23rd February, 1987.

Class 3. Nos. 158053, 158054. American Home Products Corporation, a Corporation organised an existing under the laws of State of Delaware of 685, Third Avenue, New York, New York 10017, United States of America. "Roller Applicator for Cream or Lotion". 24th February, 1987.

Class 3. No. 157965. Chawla Brothers Private Limited, trading as Kamani Oil Industries Manufacturers and Merchants whose business address is at Abad Bank House, 1st Floor, 323/325 Narsi Natha Street, Bombay 400 009, State of Maharashtra, India, "Bottles". 4th February, 1987.

Class 5. No. 158260. Surinder Lal Chaudhry, M/s. Packers Products, 10/58, Industrial Area, Kirti Nagar, New Delhi-110015, India, an Indian National. "Packing Corrugated Sleeve". 21st April, 1987.

R. A. ACHARYA

Controller General of Patents, Designs
and Trade Marks